1. Company Identification

MAR 4 2002

Konica Corporation

591-7,Kamihirose,Sayama-shi,Saitama-ken 350-1321 Japan

Tel : 011-81-42-954-4529 Fax : 011-81-42-954-6677

2. Official Correspondent

Koji Kubo (Mr.)
Safety Standard Team
Standards & Regulations Section
Planning Department
Imaging Systems Division

3. Date of Submission

August 20, 2001

4. Device Trade name

Konica Direct Digitizer REGIUS MODEL 350

5. Common Name

Film Digitizer (CR /MAGER)

6. Classification

Medical image digitizer was reviewed by the Rudiology Panel and are classified in Class II per 21 CFR 892. 2030.

7. Predicate Device

Konica Direct Digitizer, Model 330, 510(k) number: K980873

8. Description of Device

The Konica Direct Digitizer, REGIUS MODEL 350 is an X-ray image controller which uses a stimulative phosphor as X-ray detector and controls and manages digital X-ray image file processing.

The system consists of an operator console, an image buffer section (hard disk) and control section. The operator console consists of an operation CRT display that has a touch panel function, and a keyboard for entering text. An image file received from an industry-standard X-ray film cassette is processed using automatic tonal processing and is then transferred to an externally connected device including a host computer or CR printer.

For more information, please refer to the attachment.

9. Intended Use

The Konica Direct Digitizer, REGIUS MODEL 350 is an X-ray image controller which uses a Stimulative phosphor as X-ray detector and intended to control and manage digital X-ray image file processing.

10. Substantial Equivalence to Predicate Device

The Konica Direct Digitizer, REGIUS MODEL 350 is substantially equivalent to our Konica Direct Digitizer REGIUS MODEL 330,510(k) number: K980873.

Comparison of the principal characteristics of the two devices which are pertinent to Specification performance is shown below.

Item	Approved Medical Device	Medical Device Applied for Approval	Remarks
Applicant, etc.	Company : Konica Corporation	Company: Konica Corporation	
	Product Name : Konica Direct Digitizer	Product Name : Konica Direct Digitizer	
	REGIUS MODEL 330	REGIUS MODEL 350	
	Approval No. : K980873		
Configuration	The device consists of a reading unit(the	The device consists of a reading unit(the	Same as the
	unit is combined with an elevator platform	unit is combined with an elevator platform	registered
	which horizontally positions the reading	which horizontally positions the reading	model
	device to suit to the height of the patient	device to suit to the height of the patient	
	through up-and-down movement) and a	through up-and-down movement) and a	
	control unit which performs the image	control unit which performs the image	
	display, image transfer, etc.	display, in age transfer, etc.	
Principle of	X-ray image data of a patient is	K-ray in age date of a patient is	Same as the
Operation	temporarily stored in the stimulable	temporarily atored in the stimulable	registered
	phosphor plate that is contained in the	phosphor plate that is contained in the	model
	device.	device.	
	<exposure></exposure>	<enpager></enpager>	
	After that the surface of the plate is	After that the surface of the plate is	
	scanned in time sequence by laser beam so	scanned in time sequence by Inser beam so	
	that the amount of light according to the	that the amount of light according to the	
	amount of X-ray stored in the plate is	amount of X-ray stored in the plate is	
	emitted. The emitted light will be collected	emitted. The emitted light will be collected	
	and converted to electric signal by a	and converted to electric oignal by a	
	photomultiplier tube (PMT), then to	photomultiplier tubs (PMT), then to	
	digital signal by an A/D converter, etc	digital signal by an A/D converter, etc	
	<reading></reading>	<reading></reading>	
	After reading is completed, light of	After reading is completed, light of	•
	halogen lamp is applied to the surface of	halogen lamp is applied to the surface of	
	the plate in order to crase the after-image.	the place in order to erase the after-image.	
	<erase></erase>	<etnen-< th=""><th></th></etnen-<>	
	Through this chain of operations	Through this chain of operations	
	(Exposure → Reading→Erase), repeat-use	(Exposure → Reading→Erase), repeat-use	
	of the plate is made possible.	of the plate is made possible.	
	The image data after being converted to	The image data after being converted to	
	digital signal is then transferred to the	digital airest is then trussferred to the	
	controller and displayed on CRT.	cantraller and displayed on CRT.	
	After checking the image, the image data	After checking the image, the image data	
	will be transferred to the printer,	will be transferred to the printer,	
	magneto-optic disk drive, or host	inagneto-or tie diek drive, or host	
	computer.	computer.	

2.0

Specifications	• Type: Exclusively for the exposure of stand position. • Cycle Time: Max. 25 sec. or less. (14x17in at 175 µ m reading pitch) • Exposure Size: 5 sizes (14x17in, 14x14in, 11x14in, 10x12in, 8x10in) • Maximum Pixels(Read): Max. 4096 x 4924 pixel • Sampling Pitch: 9 types (87.5, 100, 125, 137.5, 150, 175, 200, 212.5, 350 µ m) • Gray Levels: 4096 • Laser Source: Laser Diode 780nm • Laser Power: 200mW • Laser Modulator; none • Elevation stroke: 575mm or more • Power Source; AC200V, 50/60Hz • Power Consumption; 1.8kW • Operational Environment: Temperature: 20~30℃ Humidity: 35~80%RH (Applicable to reading unit only)	O Type: Exclusively for the exposure of stand position O Cycle Time: Max. 17 sec. or less. (17x17in at 175 \(\mu\) m reading pitch) O Exposure Size: 6 sizes (17x17in,14x17in, 14x14in, , 11x14in 10x12ia, 8x10in) O Maxin um Pixels(Read): Max. 4860 x 4860 pixel O Sampling Pitch: 2 types (87.5, 175 \(\mu\) m) O Gray Levels: 4096 C Lacer Source: Laser Diode 690nm O Lacer Modulator; none O Elevation stroke: 790mm or more O Power Source: AC100/200V, 50/60Hz C Power Consemption: 1.3kW O Operational Environment: Temperature: 15~30°C Humidity: 40~80%RH	Upgrated.
Purpose of Use	The device is intended for the use at the	The danier is intended for the use at the	Same as the
	X-ray department of the hospital, etc. in	X. my degratment of the hospital, etc. in	approved device.
	order to convert X-ray image data to	order to convert X-ray itange data to	
	digital signal and to transfer the converted	digital signal and to transfer the converted	
	data to printer, magneto-optic disk driver,	data to printer filing spatant, image	
	image display device, etc.	displayede rico etc.	



Public Health Service

Food and Drug Administration 10903 New Hampshire Avenue Document Control Room – WO66-G609 Silver Spring, MD 20993-0002

Konica Corporation % Mr. Shinichi Yamanaka Cosmos Corporation 319 Akeno, Obata-cho Watarai-gun, Mie-ken 519-05 JAPAN

AUG 2 3 2013

Re: K013054

Trade/Device Name: Konica Direct Digitizer Regius Model 350

Regulation Number: 21 CFR 892.1680 Regulation Name: Stationary x-ray system

Regulatory Class: II
Product Code: MQB

Dated: November 26, 2001 Received: December 3, 2001

Dear Mr. Yamanaka:

This letter corrects our substantially equivalent letter of March 2, 2002.

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into class II (Special Controls), it may be subject to such additional controls. Existing major regulations affecting your device can be found in Title 21, Code of Federal Regulations (CFR), Parts 800 to 895. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Parts 801 and 809); medical device reporting (reporting of

medical device-related adverse events) (21 CFR 803); and good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820). This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Parts 801 and 809), please contact the Office of *In Vitro* Diagnostic Device Evaluation and Safety at (301) 796-5450. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely Yours

Janine M. Morri

Acting Director

Division of Radiological Devices Office of In Vitro Diagnostic Device

Evaluation and Safety

Center for Devices and Radiological Health

Enclosure

Device Name: KONICA PIRECT PIGITIZER, REGIUS MODEL 350 Indications for Use: The Konica Direct Digitizer, REGIUS MODEL 350 is an X-ray image controller which uses a stimulative phosphor as X-ray detector and controls and manages digital X-ray image file processing. (PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED) Concurrence of CDRH, Office of Device Evaluation Prescription Use_ OR Over-The-Counter Use (Optional Format 1-2-96) (Division Sign-Off) Division of Reproduct and Radiological Devices

510(k) Number (If known): Not known

510(k) Number.